

# INTERNATIONAL SEARCH REPORT

Rec'd ~~POWPTO~~ 02 DEC 2004

10/516527

Int'l Application No.  
PCT/DK 03/00367

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G02B6/12 G02B6/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 745 618 A (LI YUAN P) 28 April 1998 (1998-04-28) cited in the application figure 8	1-10, 45-53
A		20, 37-40
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 271551 A (NIPPON TELEGR & TELEPH CORP & NTT), 8 October 1999 (1999-10-08) abstract	
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

2 April 2004

Date of mailing of the international search report

04. 06. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Verbandt, Y

# INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/DK 03/00367

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 06, 22 September 2000 (2000-09-22) & JP 2000 075327 A (NEC CORP), 14 March 2000 (2000-03-14) abstract	
X,P	WO 02/088791 A (LIGHTWAVE MICROSYSTEMS CORP) 7 November 2002 (2002-11-07) figures 2f,3a	31-36
X	WO 01/90791 A (HITACHI LTD ; KAWAMOTO KAZUMI (JP); MATSUSHIMA NAOKI (JP)) 29 November 2001 (2001-11-29) figures 3,6,8	31-36
A	EP 0 731 367 A (AT & T CORP) 11 September 1996 (1996-09-11) figure 4	31
A	US 6 212 307 B1 (LABEYE PIERRE ET AL) 3 April 2001 (2001-04-03) figure 9	
X	US 4 781 424 A (OKAMOTO KATSUNARI ET AL) 1 November 1988 (1988-11-01) figure 8	11-30
A	WO 00/48024 A (UNIV SYDNEY ; ASLUND MATTIAS (AU); CANNING JOHN (AU)) 17 August 2000 (2000-08-17)	
A	EP 1 045 263 A (FURUKAWA ELECTRIC CO LTD) 18 October 2000 (2000-10-18)	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK 03/00367

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5745618	A	28-04-1998	DE 69800019 D1	21-10-1999
			DE 69800019 T2	25-05-2000
			EP 0856755 A1	05-08-1998
			JP 3338356 B2	28-10-2002
			JP 10274719 A	13-10-1998
JP 11271551	A	08-10-1999	NONE	
JP 2000075327	A	14-03-2000	NONE	
WO 02088791	A	07-11-2002	US 2002159703 A1	31-10-2002
			EP 1381892 A2	21-01-2004
			WO 02088791 A2	07-11-2002
WO 0190791	A	29-11-2001	JP 2001337252 A	07-12-2001
			WO 0190791 A1	29-11-2001
EP 0731367	A	11-09-1996	US 5629999 A	13-05-1997
			DE 69609646 D1	14-09-2000
			DE 69609646 T2	28-12-2000
			EP 0731367 A2	11-09-1996
			JP 3296711 B2	02-07-2002
			JP 8262244 A	11-10-1996
US 6212307	B1	03-04-2001	FR 2748573 A1	14-11-1997
			EP 0806685 A1	12-11-1997
US 4781424	A	01-11-1988	JP 63033710 A	13-02-1988
			JP 1930089 C	12-05-1995
			JP 6046245 B	15-06-1994
			JP 63043105 A	24-02-1988
			JP 2019691 C	19-02-1996
			JP 7038043 B	26-04-1995
			JP 63071808 A	01-04-1988
			JP 1930690 C	12-05-1995
			JP 6060982 B	10-08-1994
			JP 63147145 A	20-06-1988
			JP 1943733 C	23-06-1995
			JP 6077087 B	28-09-1994
			JP 63147114 A	20-06-1988
			CA 1294161 C	14-01-1992
			DE 3785105 D1	06-05-1993
			DE 3785105 T2	14-10-1993
			EP 0255270 A2	03-02-1988
WO 0048024	A	17-08-2000	WO 0048024 A1	17-08-2000
			AU 2650700 A	29-08-2000
			CA 2361952 A1	17-08-2000
			EP 1181588 A1	27-02-2002
			JP 2002536698 T	29-10-2002
EP 1045263	A	18-10-2000	CA 2307340 A1	02-03-2000
			EP 1045263 A1	18-10-2000
			US 6195481 B1	27-02-2001
			WO 0011508 A1	02-03-2000